



مركز الإحصاء
STATISTICS CENTRE

Energy & Water

Abu Dhabi Emirate
2013



in Figures

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Introduction

This report presents statistics on key energy and water figures in the Emirate of Abu Dhabi for the year 2013, comprising statistics of Oil and Natural Gas, Statistics of Electrical Energy and Desalinated Water Consumption. The main sources of these statistics are Abu Dhabi National Oil Company - ADNOC, TAKREER, Abu Dhabi Water and Electricity Company.

Key points

1. Oil and Refined Petroleum Statistics

Oil and gas sector is one of the most important pillars of Abu Dhabi economy, forming a large share of the GDP. The total production of Abu Dhabi crude oil in 2013 was 996,928 thousand barrels, of which 920,687 thousand barrels were exported to other countries. Crude oil exports represented about 92.4% of the production of the same year. The amount of production in 2013 increased by 48,728 thousand barrels or 5.1% compared to 2012 and as a result, petroleum products increased in 2013 by 4.2% compared to 2012.

Table 1: Crude oil production and exports

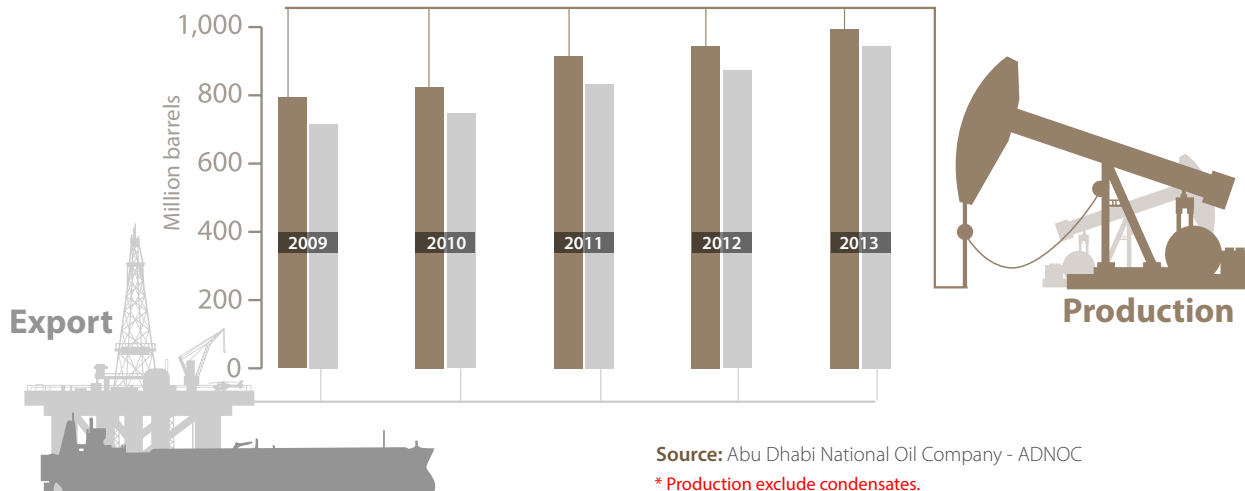
(Thousand barrels)

Year	2009	2010	2011	2012	2013
Production *	795,991	825,291	913,191	948,200	996,928
Exports	712,994	744,525	833,070	873,515	920,687

Source: Abu Dhabi National Oil Company - ADNOC

* Production exclude condensates.

Chart 1: Crude oil production and exports *



Source: Abu Dhabi National Oil Company - ADNOC

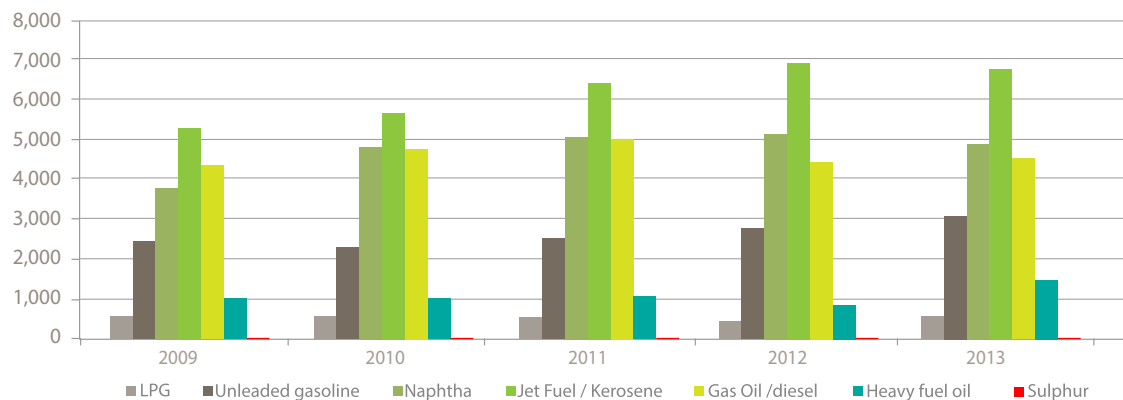
* Production exclude condensates.

Table 2: Production of refined petroleum products
(Thousand Metric Tons)

Product Type	2009	2010	2011	2012	2013
Total	17,461	19,223	20,702	20,658	21,516
LPG	521.4	579.2	540.2	452.7	591.0
Unleaded gasoline	2,439.1	2,284.3	2,537.2	2,800.0	3,056.0
Naphtha	3,803.6	4,813.4	5,070.7	5,136.8	4,912.3
Jet Fuel / Kerosene	5,266.6	5,684.0	6,422.1	6,920.9	6,866.0
Gas Oil /diesel	4,367.2	4,775.1	5,024.4	4,441.9	4,476.8
Heavy fuel oil	1,022.2	1,047.8	1,066.8	859.8	1,564.0
Sulfur	41.1	38.9	40.9	46.3	50.0

Source: Abu Dhabi National Oil Company - ADNOC, TAKREER.

Chart 2: Production of refined petroleum products
Thousand Metric Tons



Source: Abu Dhabi National Oil Company – ADNOC, TAKREER.

2. Natural Gas Statistics

The importance of natural gas stems from the variation of its uses in the Emirate of Abu Dhabi, such as liquefied fuel and other products such as propane, butane and pentane. It is also used in industries such as iron and steel, aluminum, cement. Natural gas is also re-injected in the oil wells to increase productivity and maintain pressure oil reservoir. The total production of Abu Dhabi Natural Gas in 2013 was 2,756 billion cubic feet, which is an increase of (1.3)% compared to 2012.

Table 3: Natural gas production

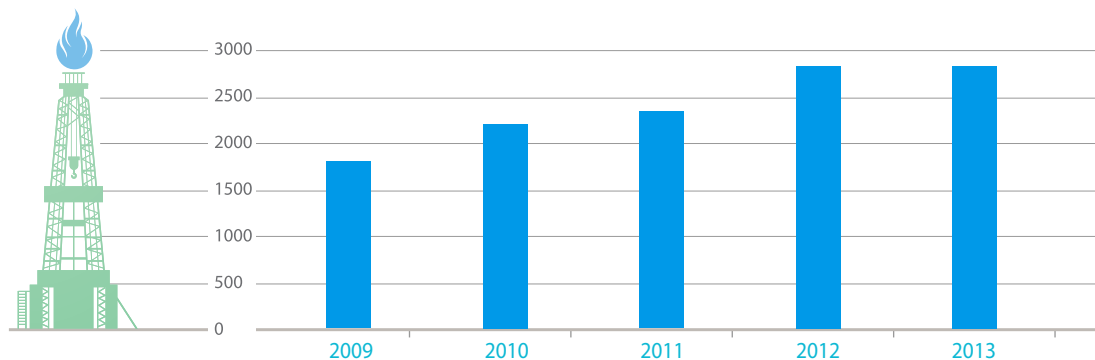
Million cubic feet

Year	2009	2010	2011	2012	2013
Annual Production	1,777,720	2,174,057	2,305,798	2,791,815	2,756,207
Daily production	4,870	5,956	6,317	7,628	7,551

Source: Abu Dhabi National Oil Company - ADNOC

Chart 3: Natural gas production

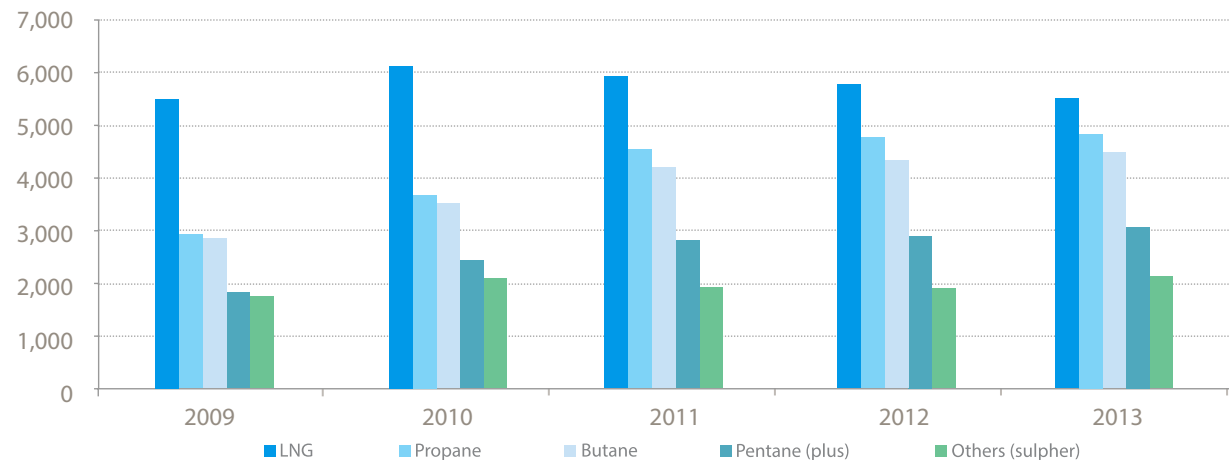
Billion Cubic Feet



Source: Abu Dhabi National Oil Company – ADNOC

Table 4: Production and Exports of Liquefied Natural Gas Products by product type**Thousand metrickion*

year	2011		2012		2013	
product type	Production	Exports	Production	Exports	Production	Exports
LNG	5,888	5,759	5,760	5,601	5,531	5,441
Propane	4,509	4,423	4,734	4,643	4,885	3,672
Butane	4,171	4,037	4,317	4,239	4,447	3,375
Pentane (plus)	2,772	2,822	2,888	2,835	3,024	2,143
Others (sulphur)	1,956	1,954	1,958	1,956	2,117	2,187
Total	19,295	18,995	19,656	19,274	20,003	16,818

Source: Abu Dhabi National Oil Company – ADNOC,**Production excludes condensates.****Chart 4:** Production of Liquefied Natural Gas Products**Thousand Metric Tons***Source:** Abu Dhabi National Oil Company – ADNOC,**Production excludes condensates.**

3. Electrical Energy Statistics

Water and electricity sector is deemed to be one of the most important sectors supporting development and serving the community. It also provides basic and necessary services for Economic activities, Citizens and Non- Citizens. The total electric power generated in the Emirate of Abu Dhabi in 2013 was about 51,937 GWH, an increase of about 32.4% during the period since 2009. The electric power consumed during the same period increased by 93.8%, reaching 49,267 GWH. This includes the internal consumption by power stations as well as losses through the network. Energy is produced through generators by burning fossil fuels where natural gas forms 99.96% of the total fuel consumed due to economic, technical and environmental considerations.

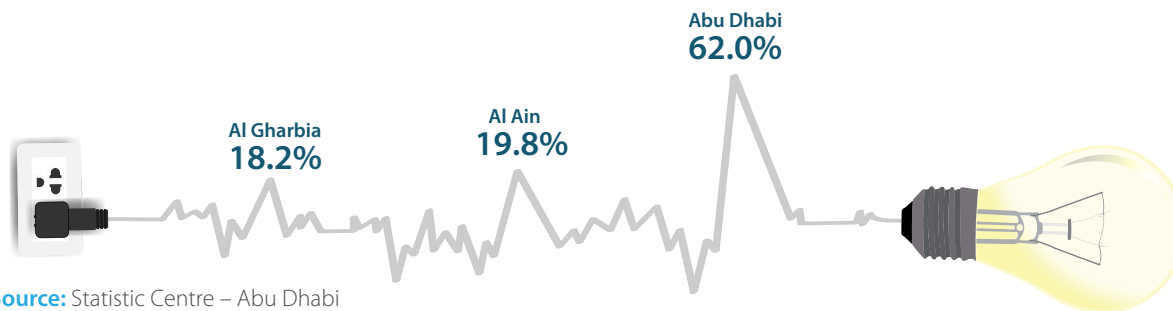
Table 5: Electrical power statistics
(MWH)

Item	2009	2010	2011	2012	2013
Total electricity production	39,219,090	41,712,189	46,314,248	50,378,419	51,936,813
Transferred from EMAL & TAKREER	182,934	146,594	52,655	2,828	27,982
Total	39,402,024	41,858,783	46,366,903	50,381,247	51,964,795
Electricity exports	4,685,857	2,685,643	3,115,984	3,264,421	2,698,226
Electricity consumption *	34,716,166	39,173,140	43,250,919	47,116,826	49,266,569
Electrical consumption per capita	19.01	19.91	20.01	20.18	20.08
Electricity planned capacity (MW)	9,249	9,247	10,875	10,867	10,917

Source: Abu Dhabi Water and Electricity Company - ADWEC.

*Consumption includes internal electrical consumption by power stations & technical losses through the network in Abu Dhabi Emirate.

Chart 5 : The Relative distribution of Electricity Consumption in the Emirate of Abu Dhabi by Region 2013.



Source: Statistic Centre – Abu Dhabi

4. Desalinated water consumption

The Emirate of Abu Dhabi consumed from desalinated water about 1,082.5 MCM in 2013, with a daily average of 3 MCM and per capita average daily consumption of 1.21 cubic metres. Consumption of desalinated water increased by 37.0% from 2009 and this rise is the result of increasing demand on water from various sectors.

Table 6: Desalinated water consumption by region

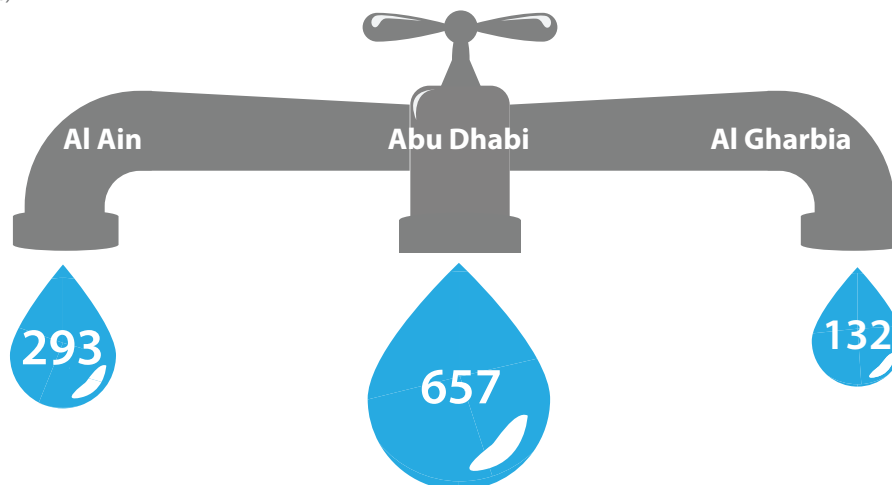
(Million cubic meters)

Item	2009	2010	2011	2012	2013
Abu Dhabi	490	529	593	653	657
Al Ain	191	232	259	286	293
Al Gharbia	109	112	110	120	132
Total	790	873	962	1059	1,083

Source: Abu Dhabi Water and Electricity Company - ADWEC

Chart 6: Total Desalinated water consumption by region, 2013

(Million cubic meters)



Source: Abu Dhabi Water and Electricity Company - ADWEC



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